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ABSTRACT

This is one of a series of reports which provide definitions of and descriptive data on the variables used in the Comparative Study of Phase IV of the Individually Guided Education (IEG) Evaluation Project. Phase IV investigated three curriculum programs specifically designed to be compatible with instructional programming for the individual student: (1) the Wisconsin Design for Reading Skills Development (WDRSD); (2) Developing Mathematical Processes (DMP); and (3) Prereading Skills (PRS). Information on instructional methods and pupil outcomes for grades 2 and 5 was collected from achievement monitoring and domain referenced tests, teacher logs, and classroom observations. This report focuses on three variables created from the observational data: nonapplied, available, and engaged time. Nonapplied time is time within the designated skills period spent in unrelated activities. Available time is the time actually available for skill instruction. Engaged time is the portion of the instructional period when students are actively involved in learning. Tables 1-8 report average number of hours and percentage of observed nonavailable, available, and engaged time, by period, for reading and math skills by grade. Tables 13-16 enumerate reading and math general objectives for each grade, and provide the total number of hours and percentages of time allocated to each objective. (BS)

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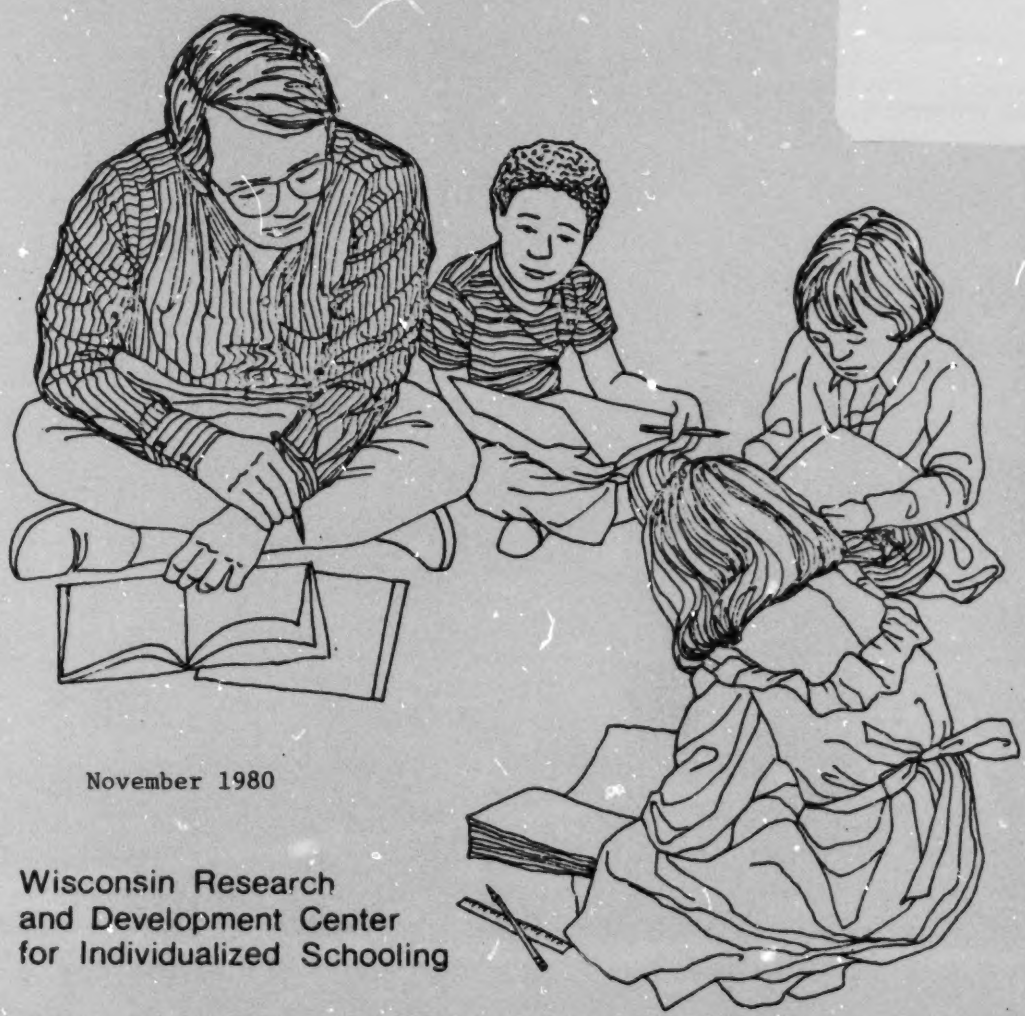
Phase IV
Project Paper 80-5

INFORMATION COLLECTED ON NONAPPLIED TIME, ENGAGED TIME, NONENGAGED TIME AND APPLIED TIME

COMPARATIVE STUDIES OF PHASE IV IGE EVALUATION PROJECT

by Norman L. Webb and Anne G. Nerenz



November 1980

Wisconsin Research
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Project Paper 80-5

Information Collected on Nonapplied Time, Engaged Time, Nonengaged Time and Applied Time

IGE Evaluation Phase IV

Comparative Studies

by

Norman L. Webb and Anne G. Nerenz

Report from the
IGE Evaluation Project

Thomas A. Romberg
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Center for Individualized Schooling
The University of Wisconsin
Madison, Wisconsin

November 1980

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- developing and demonstrating improved instructional strategies, processes, and materials for students, teachers, and school administrators
- providing assistance to educators which helps transfer the outcomes of research and development to improved practice in local schools and teacher education institutions

The Wisconsin Research and Development Center is supported with funds from the National Institute of Education and the University of Wisconsin.

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CENTER FOR INDIVIDUALIZED SCHOOLING

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Abstract

This report is one in a series of papers which provide a definition of and descriptive information on the variables used in the Comparative studies of Phase IV of the IGE Evaluation Project. Specifically, it focuses on three variables - Nonapplied Time, Available Time, and Engaged Time.

A more detailed discussion of the design of the study and the expected relationships among the variables is available in Project Paper 80-2 (Romberg, Webb, Stewart, and Nerenz, 1980) and readers might find that report helpful in understanding the data presented here.

The IGE Evaluation Project has as a central objective the identification of features of IGE schooling which contribute to successful instruction, especially in reading skills and mathematics. Although the first four phases of this project focused on different aspects of IGE, they were designed to provide complementary data bases resulting in a comprehensive description of this form of schooling. With this goal in mind, Phase IV was designed to supplement information collected in Phases I and III by providing detailed information on a small number of curricular and instructional variables. That is, whereas these phases investigated organizational, system, general means of instruction, and general achievement variables, the main purpose of Phase IV was to investigate the three R & D Center-produced curriculum programs whose instructional procedures and materials were specifically designed to be compatible with instructional programming for the individual student. These programs are the Wisconsin Design for Reading Skills Development (WDRSD) (Otto, 1977), Developing Mathematical Processes (DMP) (Romberg, 1977), and Prereading Skills (PRS) (Venezky & Pittelman, 1977).

Phase IV was divided into two parts--the Descriptive Study and the Comparative Study--and information on the design and procedures used during each portion may be found in Project Papers 79-42 and 80-2 (Webb & Romberg, 1979: Romberg, Webb, Stewart, & Nerenz, 1980). Briefly, each part was designed to provide detailed information

on two variables - means of instruction and pupil outcomes - using achievement monitoring and domain referenced tests, teacher logs, and classroom observations. In addition, a smaller amount of information on background, organizational, and program variables was obtained using principal, unit leader, and teacher interviews.

This report focuses on three variables created from the observational data - Nonapplied, Available, and Engaged Time. Following a definition of each variable and an explanation of the aggregation procedures, the primary data are presented.

I

Definitions and Aggregations Procedures

Non-applied Time

Definition. Non-applied time is that time within the designated skills period that is spent in activities which are unrelated to reading skills or to math. This includes time spent in transition, waiting, management, break, or other academic or nonacademic content area.

Aggregation Procedures. The six types of non-applied time listed above were aggregated into three subvariables: undirected time (transition, waiting), supervised time (management, break) and other content (other academic or non-academic content).

Available Time

Definition. Available time equals the total amount of observed time less the non-applied time and thus is that portion of the instructional period which remains once undirected, supervised, and other content time have been subtracted. As indicated by the variable name, it is the time which is actually available for skills instruction. Available time was not aggregated; however, the total minutes and percentages of available time are reported in terms of the aggregated content variables discussed in Report 80-3 (Nerenz & Webb, 1980).

Engaged and Non-engaged Time

Definition. Engaged time is that portion of the instructional period during which students are actively involved in learning the particular content. When summed, Engaged Time and its complement, Non-engaged Time, equal Available Time.

Aggregations. Total minutes and percentage of engagement or non-engagement are reported as the aggregated variables Total Engagement and Total Nonengagement whenever reading skills and mathematics content are considered. In creating these variables, the three types of engaged student behavior (engaged-writing, engaged-oral, engaged-covert) were summed. Similarly, Total Nonengagement was created by summing the three categories of non-engaged behavior (non-engaged writing, non-engaged iterim, non-engaged off-task).

Tables 1 and 2 which follow report average number of hours and percentage of observed allocated time by period for reading skills, by grade; Tables 3 and 4 report similar data for math skills by grade. Tables 5-8 provide this data for engaged time, by skill and by grade. Data for nonengaged time is in Tables 9-12. Tables 13-16 enumerate reading and math general objectives for second and fifth grade and provide the total number of hours and percentage of time allocated to each.

Table 1

Average Number of Hours and Percentage of Observed Allocated Time for Three Categories of Non-applied Time by Period for Reading Skills

Grade 2

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
			Undirected Time					
IGE/WDRSD								
466		.41, 7	2.17,17	.78, 9	.87,10	1.84,10	.14, 2	6.21
451	2.03,14	.27, 5	0, 0	.09, 9	.44, 6	.4 , 6	.07, 1	3.3
476	.24, 3		.31,33	.16, 2	-	-	.21, 3	.92
507	. 5, 3	.14, 1	.13, 1	.96, 5	-	-	.07, 1	1.8
MEAN	.69, 5	.20, 3	.65,13	.50, 6	.33, 4	.56, 4	.12, 2	3.06
IGE/Non-WDRSD								
372	1.37, 5	3.41, 8	5.3 ,10	2.38, 6	1.75, 7	.55, 2	2.11, 5	16.87
410	0 , 0	0 , 0	.19, 1	0, 0	.35, 3	.45, 2	.83, 3	1.82
493	1.1 ,19	1.23, 7	1.31, 8	.78, 7	1.89, 8	1.18,13	.91, 5	8.4
MEAN	.82. 5	1.55, 5	2.27, 6	1.05, 4	1.33, 6	.73, 6	1.28, 4	9.03
Non-IGE/WDRSD								
900	1.46,12	1.36,18	-	.94,16	.91,12	.53,14	.83,14	6.03
902	.16, 4	-	.97,12	.53,10	1.48,25	1.65,21	1.44,18	6.23
901	.34, 3	.61 , 6	2.16, 8	.54, 3	.42, 3	.38, 4	.49, 3	7.94
903	.22, 3	-	.45, 4	-	.30, 4	.33, 4	.58, 6	1.88
MEAN	.54, 3	.49, 6	.90, 6	.50, 6	1.45,11	.72,11	.83,10	5.52

Table 1 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
	Supervised Time							
IGE/WDRSD								
466	-	.11, 2	.46, 4	.59, 7	.37, 4	1.63, 9	.64,11	4.37
451	. 0, 0	.07, 1	0, 0	0, 0	.10,11	0, 0	.16, 2	.33
476	.06, 1	-	.11, 2	-	-	.11, 2	.11, 2	.39
507	-	-	.13, 1	.41, 2	.12, 1	.13, 1	.11, 1	.09
MEAN	.02, 0+	.04, 1	.18, 2	.25, 2	.15, 2	.47, 3	.26, 4	1.50
IGE/Non-WDRSD								
372	.50, 2	1.24, 3	1.74, 3	.98, 3	.47, 2	1.10, 4	1.27, 3	7.3
410	0, 0	0, 0	0, 0	0, 0	.10, 1	0, 0	0, 0	.1
493	-	.86, 5	.57, 3	.12, 1	-	-	-	1.55
MEAN	.17, 1	.70, 3	.77, 2	.37, 1	.19, 1	.37, 1	.42, 1	2.98
Non-IGE/WDRSD								
900	-	.76,10	-	.72,12	-	.12, 3	-	.53
902	.85,23	.31,10	1.93,24	-	.06, 1	-	-	3.15
901	.55, 5	-	.48, 2	-	-	.08, 1	-	1.11
903	-	-	-	-	.92,13	.91,12	.62, 6	2.45
MEAN	.35, 7	.27, 5	.60, 6	.18, 3	.24, 4	.28, 4	.15, 1	1.81

Table 1 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
	Other Content Time							
IGE/WDRSD								
466	-	.26, 5	-	.21, 2	.63, 7	.59, 3	-	1.69
451	0, 0	1. 0,19	0, 0	.67,28	1.23,15	.92,13	0, 0	3.82
476	.06, 1	-	-	-	-	-	-	.06
507	.17, 1	.45, 4	.96, 6	.56, 3	.48, 2	.06, 0+	.86, 6	3.54
MEAN	.06, 0+	.43, 7	.24, 1	.36, 8	.58, 6	.39, 4	.22, 2	2.28
IGE/Non-WDRSD								
372	0, 0	3.21, 8	1.10, 2	1.56, 4	.30, 1	0, 0	.46, 1	6.63
410	0, 0	0 , 0	.20, 1	.45, 2	.50, 4	.41, 2	.12, 1	1.68
493	.38, 3	.23, 1	2.47,14	1.41,13	.27, 1	-	.13, 1	4.89
MEAN	.10, 1	1.15, 3	1.26, 6	1.14, 6	.36, 2	.14, 1	.24, 1	4.4
Non-IGE/WDRSD								
900	-	.46, 6	-	.78,13	-	1.07,28	-	2.31
902	-	-	.12, 1	-	-	-	-	.12
901	.37, 3	.09, 1	-	.68, 3	.58, 4	-	.16, 1	1.88
903	-	-	1.03,10	-	.06, 1	-	-	1.09
MEAN	.09, 1	.14, 2	.29, 3	.36, 4	.16, 1	.27, 7	.04, 0+	1.35

Table 2

Average Number of Hours and Percentage of Observed Allocated Time for Three Categories of Non-applied Time by Period for Reading Skills

Grade 5

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Undirected Time								
IGE/WDRSD								
466	0, 0	.43, 8	.89, 9	.48, 8	0, 0	.69, 6	1.21,11	3.7
451	.44, 4	1.39,12	0, 0	0, 0	.53, 5	.35, 3	.33, 3	3.04
476	.06, 0+	0 ,0	.22, 2	0, 0	0, 0	0, 0	.50, 4	.78
507	.28, 2	0, 0	0, 0	0, 0	0, 0	0, 0	.11, 3	.39
MEAN	.20, 2	.46, 5	.28, 3	.12, 2	.13, 1	.26, 2	.54, 5	1.98
IGE/Non-WDRSD								
372	1.11, 4	1.27, 4	1.76, 5	.91, 4	.72, 3	.51, 3	.12, 0+	6.4
410	0, 0	.14, 1	.20, 1	.22, 2	.05, 1	.40, 3	.06, 0+	.07
193	.51, 6	.21, 1	.37, 3	.05, 1	.10, 1	.31, 3	.05, 0+	1.6
MEAN	.54, 3	.54, 2	.78, 3	.39, 2	.29, 2	.41, 3	.08, 0+	3.02
Non-IGE/WDRSD								
900	.89,11	1.06,11	0, 0	.69, 8	.49, 4	.42, 8	.66, 7	4.21
902	0, 0	0, 0	1.66,19	1.55,27	.67,12	.89,10	2.23,25	7.0
901	1.44,11	2.02,19	1.15, 6	1.12,12	.97, 5	.19, 2	1.58,14	8.47
903	.06, 1	.04, 1	.21, 3	0, 0	.21, 2	.11, 1	.31, 3	.94
MEAN	.60, 6	.78, 8	.76, 8	.84,12	.58, 6	.40, 5	1.20,12	5.16

Table 2 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
	Supervised Time							
IGE/WDPSD								
466	0, 0	.05, 1	.46, 5	.18, 3	0, 0	.77, 6	.60, 5	2.06
451	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	.06, 1	.06
476	0, 0	0, 0	.51, 4	0, 0	0, 0	0, 0	0, 0	.51
507	0, 0	0, 0	.21, 1	.04, 0+	0, 0	.13, 2	.05, 1	.43
MEAN	0, 0	.01, 0+	.30, 2	.06, 1	0, 0	.22, 2	.18, 2	.76
IGE/Non-WDRSD								
372	.11, 0+	.06, 0+	.34, 1	.10, 0+	0, 0	.06, 0+	.35, 1	1.02
410	0, 0	0, 0	0, 0	0, 0	.10, 1	.40, 3	.81, 3	1.31
493	0, 0	0, 0	0, 0	0, 0	.06, 0+	0, 0	0, 0	.06
MEAN	.04, 0+	.02, 0+	.08, 0+	.03, 0+	.02, 0+	.15, 1	.39, 1	.80
Non-IGE/WDRSD								
900	.16, 2	1.42,14	0, 0	.32, 4	.18, 2	0, 0	0, 0	2.08
902	.59,12	.04, 1	1.62,19	.68,12	1.44,26	0, 0	0, 0	4.37
901	.09, 1	.19, 2	0, 0	.61, 7	0, 7	.40, 5	.13, 1	1.42
903	0,10	0, 0	0, 0	0, 0	.86, 9	.93,12	.21, 2	2.0
MEAN	.21, 3	.41, 4	.40, 5	.40, 6	.62, 9	.24, 4	.09, 1	2.47

Table 2 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Other Content Time								
IGE/WDRSD								
466	0, 0	.65,12	1.09,11	1.12,19	0, 0	2.52,21	1.68,15	7.06
451	0, 0	.20, 2	0, 0	.90,28	0, 0	.31, 3	2.59,24	4.0
476	0, 0	2.67,27	3.45,28	0, 0	0, 0	0, 0	0, 0	6.12
507	.30, 2	1.73,27	.34, 2	2.37,22	0, 0	.25, 4	0, 0	4.99
MEAN	.08, 0+	1.31,17	1.22, 7	1.10,17	0, 0	.77, 7	1.07,10	5.54
IGE/Non-WDRSD								
372	.36, 2	.12, 1	.29, 1	.15, 1	.29, 1	.41, 2	.23, 1	1.85
410	0, 0	0, 0	.33, 2	.28, 3	0, 0	0, 0	.35, 1	.96
493	1.43,16	2.46,15	2.24,17	1.35,16	.64, 4	.38, 3	1.80,18	10.3
MEAN	.60, 6	.86, 5	.93, 7	.59, 7	.31, 2	.26, 2	.79, 7	4.37
Non-IGE/WDRSD								
900	0, 0	.47, 5	0, 0	0, 0	2.40,21	0, 0	0, 0	2.87
902	0, 0	.17, 4	0, 0	0, 0	0, 0	0, 0	0, 0	.17
901	0, 0	.18, 2	1.81, 9	.72, 8	.40, 2	1.67,21	.13, 1	4.91
903	0, 0	0, 0	.06, 1	0, 0	.47, 5	.34, 4	0, 0	.87
MEAN	0, 0	.20, 3	.48, 2	.18, 2	.82, 7	.50, 6	.03, 0+	2.20

Table 3

Number of Hours and Percentage of Observed Allocated Time for

Three Categories of Non-applied Time by Period for Mathematics Skills

Grade 2

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Undirected Time								
IGE/DMP								
440	.81, 7	.87, 8	.76,10	.31, 3	.33, 3	.11, 3	1.35, 9	4.54
593	.34, 2	.24, 1	.25, 5	.89, 4	.87, 5	.26, 2	.21, 2	3.06
MEAN	.58, 4	.56, 4	.50, 8	.60, 4	.60, 4	.18, 2	.78, 6	3.80
IGE/Non-DMP								
428	0, 0	0, 0	.07, 3	.43, 4	.48, 4	.50, 8	.37, 5	1.85
421	.81, 7	.46, 4	-	.58, 6	.71, 7	.97,10	.56, 8	4.09
333	.11, 1	.93, 8	.14, 1	.10, 2	.43, 6	.21, 2	.13, 1	2.05
MEAN	.31, 3	.46, 4	.10, 2	.37, 4	.54, 6	.56, 7	.35, 4	2.66
Non-IGE/DMP								
904	.12, 1	0, 0	0, 0	.84, 8	.72, 6	0, 0	0, 0	1.68
906	.56, 4	.08, 1	.50, 3	0, 0	.14, 1	.06, 1	.17, 1	1.51
762	2.28, 9	2.31, 8	3.25,10	.85, 7	.65, 2	1.51, 8	1.50, 6	12.35
MEAN	.99, 5	.80, 3	1.25, 4	.56, 5	.50, 3	.52, 3	.56, 2	5.18

Table 3 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Supervised Time								
IGE/DMP								
440	.17, 2	.23, 2	.29, 4	.41, 4	0, 0	0, 0	0, 0	1.10
593	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0
MEAN	.08, 1	.12, 1	.15, 2	.20, 2	0, 0	0, 0	0, 0	.55
IGE/Non-DMP								
428	0, 0	0, 0	0, 0	.90, 8	0, 0	.12, 2	0, 0	1.02
421	.29, 2	0, 0	-	.29, 3	0, 0	.10, 1	0, 0	.68
333	0, 0	0, 0	.44, 4	.40, 7	0, 0	.15, 1	.58, 6	1.57
MEAN	.10, 1	0, 0	.15, 1	.53, 6	0, 0	.12, 1	.19, 2	1.09
Non-IGE/DMP								
904	0, 0	.32, 0	0, 0	0, 0	0, 0	0, 0	0, 0	.32
906	0, 0	0, 0	.68, 4	.11, 1	0, 0	0, 0	.23, 2	1.02
762	5.26,20	2.51, 8	3.97,12	.67, 6	.77, 2	.73, 4	1.22, 5	15.13
MEAN	1.75, 7	.94, 3	1.55, 5	.26, 2	.26, 1	.24, 1	.48, 2	2.16

Table 3 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Other Content Time								
IGE/DMP								
440	0, 0	0, 0	0, 0	.28, 3	.17, 2	.16, 4	.37, 2	.98
593	0, 0	0, 0	.05, 1	0, 0	0, 0	.87, 8	0, 0	.92
MEAN	0, 0	0, 0	.02, 0+	.14, 2	.08, 1	.51, 6	.18, 1	.95
IGE/Non-DMP								
428	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0.00
421	.06, 1	1.11, 9	-	0, 0	.37, 4	1.56,15	.11, 2	3.21
333	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0.00
MEAN	.02, 0+	.37, 3	0, 0	0, 0	.12, 1	.52, 5	.04, 1	1.07
Non-IGE/DMP								
904	.06, 0+	.31, 2	.47, 4	.83, 8	.17, 1	0, 0	0, 0	1.84
906	.42, 3	.42, 3	0, 0	0, 0	0, 0	0, 0	0, 0	.84
762	1.91, 7	11.50,38	7.38,23	.27, 2	3.56,11	1.70, 9	8.41,34	34.73
MEAN	.80, 3	4.08,14	2.61, 9	.37, 3	1.24, 4	.57, 3	2.80,11	12.47

Table 4

Average Number of Hours and Percentage of Observed Allocated Time for Three Categories of Non-applied Time by Period for Mathematics Skills

Grade 5

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Undirected Time								
IGE/DMP								
440	.83, 5	.58, 3	.53, 7	.24, 1	.66, 4	.05, 1	1.62, 6	4.51
593	1.34,11	1.03, 8	.16, 4	1.30, 8	1.67,10	1.19,10	.19, 2	6.88
MEAN	1.08, 8	.80, 6	.34, 6	.77, 4	1.16, 7	.62, 6	1.81, 4	5.70
IGE/Non-DMP								
428	.14, 1	.06, 1	.12, 2	.33, 2	.52, 4	.27, 3	.76, 5	2.2
333	0, 0	.77, 4	.24, 2	.11, 1	0, 0	.20, 4	0, 0	1.32
MEAN	.07, 1	.42, 2	.18, 2	.22, 2	.26, 2	.24, 4	.38, 2	1.76
Non-IGE/DMP								
905	0, 0	0, 0	.16, 1	.05, 0+	.20, 2	.06, 1	.10, 1	.57
906	.08, 0+	.07, 0+	.54, 6	.06, 0	.18, 1	.15, 1	.25, 1	1.33
MEAN	.04, 0+	.04, 0+	.35, 4	.06, 0+	.19, 2	.10, 1	.18, 1	.95

Table 4 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Supervised Time								
IGE/DMP								
440	.18, 1	.53, 3	0, 0	.59, 3	.18, 1	0, 0	.19, 1	1.67
593	.22, 2	0, 0	0, 0	.06, 0+	.13, 1	0, 0	.12, 2	.53
MEAN	.20, 2	.26, 2	0, 0	.32, 2	.16, 1	0, 0	.16, 2	1.10
IGE/Non-DMP								
428	0, 0	0, 0	.99,20	.47, 3	.12, 1	0, 0	0, 0	1.58
333	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	0
MEAN	0, 0	0, 0	.50,10	.24, 2	.06, 1	0, 0	0, 0	.79
Non-IGE/DMP								
905	0, 0	0, 0	.21, 2	0, 0	.07, 1	0, 0	.06, 0+	.34
906	0, 0	0, 0	0, 0	.25, 1	0, 0	0. 0	.82, 4	1.07
MEAN	0, 0	0, 0	.10, 1	.12, 1	.02, 1	.0 ,0	.44, 2	.70

Table 4 (continued)

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
Other Content Time								
IGE/DMP								
440	1.85,11	0, 0	0, 0	0, 0	.94, 5	0, 0	0, 0	2.79
593	.06, 0+	0, 0	0, 0	0, 0	0, 0	0, 0	0, 0	.06
MEAN	1.46, 6	0, 0	0, 0	0, 0	.47, 2	0, 0	0, 0	1.42
IGE/Non-DMP								
428	0, 0	0, 0	.06, 1	.13, 1	0, 0	0, 0	0, 0	.19
333	0, 0	.06, 0+	0, 0	.16, 2	0, 0	0, 0	0, 0	.22
MEAN	0, 0	.03, 0+	.03, 1	.15, 2	0, 0	0, 0	0, 0	.20
Non-IGE/DMP								
905	.17, 1	.31, 2	0, 0	.47, 4	0, 0	.83, 9	0, 0	1.78
906	.33, 2	1.12, 7	.44, 5	0, 0	.56, 3	0, 0	.73, 4	3.18
MEAN	.25, 2	.72, 4	.22, 2	.24, 2	.28, 2	.42, 4	.36, 2	2.48

Table 5

Average Number of Hours and Percentage of Observed Time for Engaged Time by Period for Reading Skills

Grade 2

School Type and Number	Period (Hours, %)							Total Hours
	A	B	C	D	E	F	G	
IGE/WDRSD								
466	- -	3.92,70	5.74,46	4.08,47	4.65,52	9.19,52	2.99,52	30.57
451	10.40,70	3.12,59	2.01,80	1.11,46	4.71,59	3.88,54	4.69,66	29.83
476	5.04,71	4.93,70	3.82,59	4.62,69	4.16,64	3.21,75	4.84,70	30.62
507	10.03,67	9.55,76	9.53,65	11.88,67	12.69,68	12.33,77	8.13,74	74.05
MEAN	6.37,52	5.38,69	5.28,62	5.42,57	6.53,60	7.15,64	5.14,66	41.27
IGE/Non-WDRSD								
372	18.84,71	24.58,58	38.08,70	18.56,50	13.87,59	18.58,66	27.53,60	160.04
410	11.49,74	4.15,69	13.25,24	20.56,81	9.45,77	14.49,82	19.24,81	92.63
493	7.72,64	12.21,74	8.29,49	6.74,63	15.57,69	7.16,80	11.26,67	68.95
MEAN	12.68,70	13.65,67	19.87,64	15.29,65	12.96,68	13.41,76	19.34,69	107.21
Non-IGE/WDRSD								
900	10.42,85	4.40,58	-	2.65,45	4.58,60	1.12,29	4.43,74	27.60
902	2.22,59	2.30,72	3.48,42	4.60,88	3.82,65	4.38,55	4.93,62	25.73
901	7.92,67	5.63,53	11.39,45	10.61,55	6.82,52	5.39,57	7.93,52	55.69
903	3.86,51	3.02,63	3.90,39	-	3.70,51	5.11,70	5.41,56	25.00
MEAN	6.10,66	3.84,62	4.69,32	4.46,47	4.73,57	4.00,53	5.68,61	33.50

Table 6

Average Number of Hours and Percentage of Observed Time for Engaged Time by Period for Reading Skills

Grade 5

School Type and Number	Period (Hours, %)							Total Hours
	A	B	C	D	E	F	G	
IGE/WDRSD								
466	-	3.71,70	4.12,43	2.53,42	-	5.47,46	5.72,52	21.55
451	6.77,70	7.23,65	-	1.94,61	7.54,69	8.09,73	5.63,52	37.20
476	8.97,79	4.86,50	3.71,31	8.38,86	6.42,77	5.75,87	8.02,68	46.11
507	9.98,67	3.51,54	10.27,69	6.21,58	5.61,80	5.11,74	2.33,60	43.02
MEAN	25.72,54	19.31,60	18.10,36	19.06,62	19.57,56	24.42,70	21.70,58	147.88
IGE/Non-WDRSD								
372	15.87,69	14.31,67	22.13,66	16.65,67	14.96,65	11.67,71	12.66,53	108.25
410	8.22,78	10.45,91	12.54,94	7.62,85	7.06,97	10.29,87	27.27,92	83.45
493	6.02,66	8.21,50	6.91,53	5.13,62	11.00,76	9.70,89	5.71,57	52.68
MEAN	30.11,71	32.97,69	41.58,71	29.40,71	33.02,79	31.66,82	45.64,67	244.38
Non-IGE/WDRSD								
900	5.78,69	5.46,55	-	6.39,71	4.76,42	2.09,39	4.82,54	29.30
902	2.62,55	2.63,67	4.06,67	3.31,57	2.46,44	6.73,78	5.91,66	27.72
901	7.59,57	7.45,71	13.13,64	4.78,52	13.50,70	4.01,50	7.09,64	57.55
903	3.12,62	4.09,58	4.20,58	-	6.30,66	5.03,66	7.68,78	30.42
MEAN	19.11,61	19.63,63	21.39,42	14.48,45	27.02,56	17.86,58	25.50,66	144.99

Table 7

Average Number of Hours and Percentage of Observed Time for

Engaged Time by Period for Mathematics Skills

Grade 2

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
IGE/DMP								
440	5.89,54	7.10,66	4.32,56	4.73,52	5.33,55	2.02,58	9.69,63	38.99
593	12.60,74	11.64,65	3.41,63	13.22,63	11.06,67	7.66,67	8.92,77	68.51
MEAN	9.24,64	9.37,66	3.86,60	8.98,58	8.20,61	4.84,62	9.26,70	53.75
IGE/Non-DMP								
428	3.88,78	4.20,84	1.79,71	8.51,72	5.60,71	2.65,41	4.42,60	31.05
421	7.85,69	7.04,60	-	2.92,28	2.76,28	3.22,32	3.01,42	26.80
333	6.93,74	5.63,49	8.16,74	4.32,72	5.50,80	6.78,66	6.46,70	43.78
MEAN	6.22,73	5.62,64	3.32,49	5.25,57	4.62,60	4.22,46	4.63,58	33.88
Non-IGE/DMP								
904	9.23,75	8.42,66	8.23,73	6.40,63	7.32,58	3.68,57	7.27,73	50.55
906	8.51,59	6.44,50	10.14,63	9.71,68	7.58,57	3.39,68	8.07,58	53.84
762	8.70,33	7.75,26	10.92,34	5.49,48	11.65,37	10.39,55	7.81,31	62.71
MEAN	8.81,56	7.54,47	9.76,57	7.20,60	8.85,51	5.82,60	7.72,54	55.70

Table 8

Average Number of Hours and Percentage of Observed Time for

Engaged Time by Period for Mathematics Skills

Grade 5

School Type and Number	Period (Hours, %)							Total Hours
	A	B	C	D	E	F	G	
IGE/DMP								
440	10.50,60	10.46,62	3.26,41	9.16,52	8.10,45	3.62,66	15.33,56	60.43
593	9.29,77	8.87,72	3.46,91	10.88,67	10.50,66	7.64,63	4.61,61	55.25
MEAN	9.90,69	9.66,66	3.36,66	10.02,60	9.30,56	5.63,64	9.97,58	57.84
IGE/Non-DMP								
428	12.03,83	8.44,85	3.09,63	10.45,72	9.84,71	7.02,72	10.64,71	61.51
333	3.34,74	12.08,71	7.60,64	5.59,71	6.70,72	2.66,56	9.93,73	47.90
MEAN	7.68,78	10.26,78	5.34,64	8.02,72	8.27,72	4.84,64	10.28,72	54.70
Non-IGE/DMP								
905	8.70,71	7.00,56	7.36,65	8.00,70	6.61,60	6.00,67	6.74,59	50.41
906	11.15,74	10.18,66	5.48,65	10.50,59	10.63,62	6.63,60	9.13,51	63.70
MEAN	9.92,72	8.59,60	6.42,65	9.25,64	8.62,61	6.32,64	7.94,54	57.06

Table 9

Average Number of Hours and Percentage of Observed Time for

Non-engaged Time by Period for Reading Skills

Grade 2

School Type and Number	Period (Hours, %)							Total Hours
	A	B	C	D	E	F	G	
IGE/WDRSD								
466	- -	0.48, 8	4.13,33	2.05,24	2.50,28	3.93,22	1.93,34	15.02
451	2.33,16	0.82,16	0.49,20	0.53,22	1.50,19	2.01,28	2.17,31	9.85
476	1.28,18	1.66,24	2.26,35	1.17,17	1.98,30	0.98,23	1.72,25	11.05
507	4.33,29	2.37,19	3.88,26	3.86,22	5.37,29	3.18,20	1.44,13	24.43
MEAN	1.98,16	1.33,17	2.69,28	1.90,21	2.84,26	2.52,23	1.82,26	15.09
IGE/Non-WDRSD								
372	5.78,22	7.90,18	8.39,15	13.49,36	7.12,30	5.62,20	12.08,26	60.38
410	4.20,27	1.85,31	4.32,24	4.65,18	1.90,15	2.61,15	3.67,15	23.20
493	1.49,12	1.80,11	1.80,11	1.64,15	3.02,13	0.64, 7	1.32, 8	11.71
MEAN	3.82,20	3.85,20	4.84,17	6.59,23	4.01,20	2.96,14	5.69,17	31.76
Non-IGE/WDRSD								
900	0.36, 3	0.28, 4	-	0.81,14	1.44,19	0.63,16	0.72,12	4.24
902	0.31, 8	0.57,18	0.84,10	0.06, 1	0.55, 9	1.50,19	0.72, 9	4.55
901	2.06,17	2.70,25	10.36,41	6.43,33	4.52,35	3.12,33	3.68,24	32.87
903	3.52,46	1.78,37	4.10,41	-	1.93,26	0.52, 7	3.08,32	14.93
MEAN	1.56,19	1.33,21	3.82,23	1.82,12	2.11,22	1.44,19	2.05,19	14.15

Table 10

Average Number of Hours and Percentage of Observed Time for

Non-engaged Time by Period for Reading Skills

Grade 5

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
	Non-engaged - Waiting							
IGE/WDRSD								
466	-	0.46, 9	1.52,16	1.14,19	-	2.55,21	1.77,16	7.44
451	1.96,20	2.38,21	-	0.37,12	2.92,26	2.34,21	2.19,20	12.16
476	1.59,14	0.83, 8	0.93, 8	0.58, 6	1.42,17	0.85,13	2.55,22	8.75
507	3.60,24	0.85,13	2.81,19	1.47,14	0.98,14	0.25, 4	1.41,36	11.37
MEAN	7.15,14	4.52,13	5.26,10	3.56,12	5.32,14	5.99,15	7.92,24	39.72
IGE/Non-WDRSD								
372	4.11,18	3.44,16	6.18,18	4.39,18	5.81,25	2.38,14	3.37,14	29.68
410	2.25,21	0.53, 8	0.31, 2	0.89,10	0.10, 1	0.76, 6	1.39, 5	6.63
493	1.53,17	1.53, 9	2.51,19	1.76,21	2.09,14	0.52, 5	0.20, 2	10.14
MEAN	7.89,19	5.90,11	9.00,13	7.04,16	8.00,14	3.66, 9	4.96, 7	46.45
Non-IGE/WDRSD								
900	1.57,19	1.50,15	-	1.54,17	2.56,22	2.87,53	2.43,27	12.47
902	0.86,18	0.68,17	0.86,10	0.25, 4	0.60,11	0.99,12	0.75, 8	4.99
901	4.25,32	0.65, 6	3.45,17	2.00,22	4.33,22	1.65,21	1.60,14	17.93
903	1.81,36	2.96,42	2.29,32	-	1.28,13	1.14,15	1.17,12	10.65
MEAN	8.49,26	5.79,20	6.60,15	3.79,11	8.77,17	6.65,25	5.95,16	46.04

Table 11

Average Number of Hours and Percentage of Observed Time for Non-engaged Time by Period for Mathematics Skills

Grade 2

School Type and Number	Period (Hours, %) A	B	C	D	E	F	G	Total Hours
IGE/DMP								
440	3.38,31	2.65,24	2.35,30	3.05,33	2.78,29	1.19,34	3.44,22	18.84
593	3.98,24	5.12,29	1.67,31	6.98,33	3.77,23	2.16,19	2.50,21	26.18
MEAN	3.68,28	3.88,26	2.01,30	5.02,33	3.28,26	1.68,26	2.97,22	22.51
IGE/Non-DMP								
428	1.13,23	0.82,16	0.65,26	1.08, 9	0.91,12	1.15,18	1.24,17	6.98
421	2.40,21	2.87,24	-	4.30,41	4.32,44	3.52,34	3.25,46	20.66
333	2.35,25	5.03,43	2.24,20	1.17,20	0.97,14	2.66,26	1.32,14	15.74
MEAN	1.96,23	2.91,28	0.96,15	2.18,23	2.07,23	2.44,26	1.94,26	14.46
Non-IGE/DMP								
904	2.89,24	2.92,23	1.64,14	2.03,20	2.25,18	1.74,27	2.40,24	15.87
906	5.14,35	1.40,11	4.67,29	3.50,25	4.73,36	1.55,31	4.96,35	25.95
762	5.28,20	4.42,15	6.46,20	3.08,27	9.00,28	3.65,19	2.74,11	34.63
MEAN	4.44,26	2.91,16	4.26,21	2.87,24	5.33,27	2.31,26	3.37,23	25.48

Table 12

Average Number of Hours and Percentage of Observed Time for

Non-engaged Time by Period for Mathematics Skills

Grade 5

School Type and Number	Period (Hours, %)							Total Hours
	A	B	C	D	E	F	G	
IGE/DMP								
440	4.03,23	5.38,32	2.86,36	7.41,42	8.02,45	1.84,33	9.92,36	39.46
593	1.10, 9	1.14, 9	0.17, 4	3.41,21	2.29,14	1.73,14	1.40,18	11.24
MEAN	2.56,16	3.26,20	1.52,20	5.41,32	5.16,30	1.78,24	5.66,28	25.35
IGE/Non-DMP								
428	2.36,16	1.41,14	0.76,16	1.40,10	3.43,25	2.45,25	2.21,15	14.02
333	1.16,26	3.45,20	2.55,21	2.45,31	1.40,15	1.13,24	3.69,27	15.83
MEAN	1.76,21	2.43,17	1.66,18	1.92,20	2.42,20	1.79,24	2.95,21	14.92
Non-IGE/DMP								
905	2.05,17	1.51,12	2.50,22	2.12,19	4.14,38	2.11,23	2.70,23	17.13
906	3.41,23	4.17,27	1.95,23	6.00,34	5.08,30	2.39,22	7.10,39	30.10
MEAN	2.73,20	2.84,20	2.22,22	4.06,26	4.61,34	2.25,22	4.90,32	23.62

Table 13

Total Number of Hours and Percentage of Allocated Time by Period for 12 Reading Skills General Objectives

Grade 2

School Type and Number	Content Code and Description (Hours, %) 01 Phonic Analysis--Consonants	02 Phonic Analysis--Vowels	03 Phonic Analysis--Silent Letters	04 Structural Analysis	05 Vocabulary Meaning	06 Map Skills	07 Graph and Table Skills	8 Reference Skills	9 Word Meaning Skills	10 Sentence Meaning Skills	11 Passage Meaning Skills	12 General Reading	Total Allocated Time (Hours)
Period A													
IUE WDRSD													
466	-	-	-	-	-	-	-	-	-	-	-	-	-
484	-	4. 7,32	8.02,54	-	-	-	-	-	-	-	-	-	12.72
476	4.09,58	-	-	2.23,31	-	-	-	-	-	-	-	-	6.32
507	1.78,12	3.94,26	-	-	-	-	0.06, 0+			4.52,30	4.02,27		14.32
Mean %	1.96,23	2.88,19	2.67,18	0.74,10			0.02, 0+			1.51,10	1.34, 9		11.12
IUE/Non-WDRSD													
372	1.88, 7	4.19,16		3.64,14	.16, 1			.94, 4	.92, 3	1.52, 6	2.47, 9	8.76,33	24.48
410	.32, 2	-		1.69,11	-			.18, 1	6.96,45	1.09, 7	-	5.34,34	15.58
493	4.26,35	-		2 .50 21				.50, 4	-	-	.43, 4	1.53,13	9.22
Mean %	2.15,15	1.40, 5		2.61,15	0.05, 0+			0.54, 3	2.63,16	0.87, 4	0.97, 4	5.21,27	16.43
Non-IUE WDRSD													
900	-	-	-	-	1.83,15	8.94,73	-	-	-	-	-	-	10.77
902	.46,12	.07, 2	-	-	.23, 6	.93,25	-	-	-	-	-	.83,22	2.52
901	-	4.26,36	-	-	.55, 5	3.05,26	-	-	-	-	1.83,15	.30, 2	9.98
903	-	-	-	5.04,66	-	-	-	-	-	-	2.33,31	-	7.37
Mean %	0.12, 3	1.08, 9		1.26,16	0.65, 6	3.23,31					1.04,12	0.28, 6	7.66

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Table 13 (continued)

Section Type and Number	Content Code and Description (Hours, %) 2 Phonic Analysis-Consonants	3 Phonic Analysis-Vowels	4 Phonic Analysis-Silent Letters	5 Structural Analysis	6 Vocabulary Meaning	7a Map Skills	7b Graph and Table Skills	8 Reference Skills	9 Word Meaning Skills	10 Sentence Meaning Skills	11 Passage Meaning Skills	12 General Reading	Total Allocated Time (Hours)
Period C													
IGE/WDRSD													
466		9.87, 79											9.87
481		2.50,100											2.50
476	3.47,53			2.60,40									6.07
507	4.13,28			2.02,14			2.29,16		0.07, 0+	2.43,17	2.43,17		13.37
Mean	1.90,20	3.09,45		1.16,14			0.57, 4		0.02, 0+	0.61, 4	0.61, 4		7.95
IGE/Non-WDRSD													
372	5.66,10	10.02,18		.73,12	2.49, 4	0.28, 0+		1.63, 3	4.63, 8	0.30, 0+	2.59, 5	12.18,22	46.51
413	0.78, 4	0.65, 4		0.12, 1	0.10, 0				2.07,12		8.31,46	5.47,30	17.50
493	1.61, 9			1.35, 8	0.37, 2				1.25, 7	0.20, 1	0.64, 4	4.66,27	10.08
Mean	2.68, 8	3.56, 7		2.73, 7	0.99, 2	0.09, 0+		0.54, 1	2.65, 9	0.17, 0+	3.85,18	7.44,27	24.70
Non-IGE/WDRSD													
900	-	-	-	-	-	-	-	-	-	-	-	-	-
902					1.58,19	1.53,19	1.20,15						4.31
904		9.26,36						0.80, 3	3.19,12		1.03, 4	7.37,29	21.65
905		8.00,81											8.00
Mean	-	5.75,39			0.53, 6	0.51, 6	0.40, 5	0.27, 1	1.06, 4		0.34, 1	2.46,10	11.32

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Table 13 (continued)

Subject Type and Number	02 Phonic Analysis--Consonants	03 Phonic Analysis--Vowels	04 Phonic Analysis--Silent Letters	05 Structural Analysis	06 Vocabulary Meaning	07 Map Skills	08 Graph and Table Skills	09 Reference Skills	10 Word Meaning Skills	11 Sentence Meaning Skills	12 Passage Meaning Skills	13 General Reading	Total Allocated Time (Hours)
Content code and description (Hours, ¢)													
Period B													
IGE/WDRSD													
466				4.40,78									4.40
491											3.93,74		3.93
474		6.57,94											6.57
507	7.32,59			4.58,37									11.90
Mean	1.83,15	1.64,24		2.24,29							0.98,18		6.70
IGE/Non-WDRSD													
372	2.50, 6	8.85,21		2.00, 5	1.93, 4	0.50, 1		0.63, 7	3.05, 7	1.82, 4	0.93, 2	10.02,24	32.23,
410											4.80,80	1.20,20	6.00
493	1.12, 7		0.46, 3	1.01, 6	1.55 9					0.46, 3	1.42, 8	7.98,48	14.00
Mean	1.21, 4	2.95, 7	0.15, 1	1.00, 4	1.16, 5	0.17, 0+		0.21, 0+	1.02, 2	0.76, 2	2.38,30	6.40,27	17.41
Non-IGE/WDRSD													
900			3.33,44									1.35,18	4.68
902	0.50,16	1.22,38			1.16,36								2.88
901		1.14,11		0.17, 2	0.43, 4			0.42, 4			2.09,20	3.96,37	8.21
403		4.79,100											4.79
Mean	0.12, 4	1.79,37	0.83,11	0.04, 0+	0.40,10			0.10, 1			0.52, 5	1.33,14	5.14

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Table 13 (continued)

Content Cluster
And Description
(Hours, %

Subject, Title and Number	Phonic Analysis-Consonants	Phonic Analysis-Vowels	Phonic Analysis-Silent Letters	Structural Analysis	Vocabulary Control	Map Skills	Graph and Table Skills	Reference Skills	Word Meaning Skills	Sentence Meaning Skills	Passage Meaning Skills	General Reading	Total Allocated Time (Hours)
					Period E								
IGE WDRSD													
466	1.11,13	1.13,13									3.90,45		6.14
491					1.64,68								1.64
476				5.80,87									5.80
507		10.65,60				1.46, 8	3.63,20						15.74
Mean	0.28, 3	2.94,18		1.45,22	0.41,17	0.36, 2	0.91, 5				0.98,11		7.33
IGE Non-WDRSD													
370	7.11,19	3.48, 9		2.94, 8	3.01, 8			2.02, 5	5.29,14	1.11, 3	0.82, 2	6.14,16	31.92
433		1.09, 4		3.06,12	0.83, 3				2.17, 8	4.13,16	4.52,18	9.03,36	24.83
448	1.84,17	0.97, 9		0.40, 4	0.18, 2				0.44, 4	0.18, 2	0.36, 3	4.00,37	8.37
Mean	2.98,12	1.85,8		2.13, 8	1.34, 4			0.67, 2	2.63, 9	1.81, 7	1.90, 8	6.39,30	21.71
Non-IGE WDRSD													
900			3.46,59										3.46
902	4.67,90												4.67
901		4.31,22		0.14, 1		0.14, 1		1.30, 7	1.88,10		4.43,23	4.86,25	17.06
903	1.56,30	1.44, 7	1.15,20	0.05, 0^+		0.05, 0^+		0.43, 2	0.63, 3		1.48, 8	1.62, 8	8.40
Mean													

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Table 13 (continued)

Student Type and Number	01 Phonic Analysis--Consonants	02 Phonic Analysis--Vowels	03 Phonic Analysis--Silent Letters	04 Structural Analysis	05 Vocabulary Meaning	06 Map Skills	Graph and Table Skills	08 Reference Skills	Word Meaning Skills	10 Sentence Meaning Skills	11 Passage Meaning Skills	12 General Reading	Total Allocated Time (Hours)
	Content Code and Description (Hours, %)												
	Period G												
IGE WDRSD													
466	5.81,33	0.95, 5								0.36, 2	6.01,34		13.13
451		2.33,32								1.20,17	2.35,33		5.88
476				4.19,97									4.19
537		8.96,56				2.49,15	4.06,25						15.51
Mean	1.45, 8	3.06,23		1.05,24		0.62, 4	1.02, 6			0.39, 5	2.09,17		9.68
IGE/Non-WDRSD													
272	1.34, 5	3.88,14		4.62,16	1.84, 6	0.30, 1		0.14, 0+	3.33,12	1.03, 4	2.93,10	4.62,16	24.03
410	0.05, 0+				1.55, 9				2.24,13	0.66, 4	9.59,54	3.01,17	17.10
493	0.69, 8	1.25,14		0.06, 1	2.14,24					0.06, 1	0.52, 6	3.08,34	7.80
Mean	0.69, 4	1.71, 9		1.56, 6	1.84,13	0.10, 0+		0.05, 0+	1.86, 8	0.58, 3	4.35,23	3.57,23	16.31
Non-IGE/WDRSD													
900						0.36, 9	0.83,22		0.56,15				1.75
902		1.95,24		3.93,49									5.88
901				3.55,38	1.03,11					2.18,23	0.69, 7	1.05,11	8.50
903											5.64,77		5.64
Mean		0.49, 6		1.87,22	0.26, 3	0.09, 2	0.21, 6		0.14, 4	0.54, 6	1.58,21	0.26, 3	5.44

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Table 13 (continued)

Content Code and Description (Hours, X)

Subject Type and Number	01 Phonic Analysis--Consonants	02 Phonic Analysis--Vowels	03 Phonic Analysis--Silent Letters	04 Structural Analysis	05 Vocabulary Meaning	06 Map Skills	07 Graph and Table Skills	08 Reference Skills	09 Word Meaning Skills	10 Sentence Meaning Skills	11 Passage Meaning Skills	12 General Reading	Total Allocated Time (Hours)
Period F													
IGE WDRSD													
406	3.81,42			1.25,14						0.77, 8	1.30,14		7.13
451				0.42, 5	5.81,73								6.23
476				6.14,95									6.14
507										2.41,13	15.57,84		17.98
Mean	0.95,10			1.95,28	1.45,18					0.80, 6	4.22,24		9.37
IGE/Non-WDRSD													
372	2.34,10	1.82, 8		3.37,14	1.46, 6			0.18, 1	4.04,17	2.04, 9	1.67, 7	3.95,17	20.87
419	1.90,15	0.30, 2		1.20,10		0.85, 7			0.40, 3		4.55,37	2.15,17	11.35
493	1.66, 7	1.35, 6	0.36, 2	2.19,10	1.53, 7				1.30, 6		0.87, 4	9.34,41	18.60
Mean	1.97,11	1.16, 5	0.12, 1	2.25,11	1.00, 4	0.28, 2		0.06, 0	1.91, 9	0.68, 3	2.36,16	5.15,25	16.94
Non-IGE/WDRSD													
900	1.42,19		0.28, 4	1.41,19			2.89,38						6.00
902		2.39, 4		1.98,34									4.37
911				1.19, 9	1.17, 9					1.11, 8	4.07,31	3.78,29	11.32
933				5.62,77									5.62
Mean	0.36, 5	0.60,10	0.07, 1	2.55,34	0.29, 2		0.72,10			0.28, 2	1.02, 8	0.94, 7	6.83

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Table 13 (continued)

Content Task and Description (Hours, %)

School Type and Number	1 Phonic Analysis--Consonants	2 Phonic Analysis--Vowels	3 Phonic Analysis--Silent Letters	4 Structural Analysis	5 Vocabulary Meaning	6 Map Skills	7 Graph and Table Skills	8 Reference Skills	9 Word Meaning Skills	10 Sentence Meaning Skills	11 Passage Meaning Skills	12 General Reading	Total Allocated Time (Hours)
Period D													
IGE WDRSD													
466	1.65,29	0.83,14									2.45,43		4.93
454	2.43,35											4.34,62	6.77
476	4.13,60	2.43,35											6.56
507	1.13,10			0.44, 4		5.88,54	2.08,19						9.53
Mean	2.34,34	0.82,12		0.11, 1		1.47,14	0.52, 5				0.61,11	1.09,16	6.95
IGE/Non-WDRSD													
372	4.48,10	9.89,21		5.21,11	0.35, 1			0.53, 1	5.05,11	0.44, 1	3.84, 8	9.13,20	38.83
410	0.26, 1	1.17, 5	0.50, 2	0.21, 1	0.99, 4		1.10, 5	0.33, 1	4.76,20	0.12, 0+	7.31,31	6.11,26	22.86
493	0.64, 4	0.25, 1		0.51, 3		0.24, 1	0.13, 1		0.84, 5	1.25, 7	0.18, 1	8.59,51	12.63
Mean	1.79, 5	3.74, 9	0.17, 1	1.98, 5	0.45, 2	0.08, 0+	0.41, 2	0.29, 1	3.55,12	0.60, 3	3.78,13	7.94,32	24.77
Non-IGE/WDRSD													
900				5.16,86									5.16
902	0.28, 4			1.20,15		4.17,53							5.65
431	3.99,26	0.46, 3		1.33, 9	1.32, 8							4.50,29	11.60
403	-	-		-	-	-	-	-	-	8.49,88			8.49
Mean	1.07, 7	0.12, 1		1.92,28	0.33, 2	1.04,13				2.12,22		1.12, 7	7.72

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Table 14

Total Number of Hours and Percentage of Allocated Time by Period for 12 Reading Skills General Objectives Grade 5

Setting: Type and Number	Content Code and Description (Hours, %)												
	01 Phonic Analysis-Consonants	02 Phonic Analysis-Vowels	03 Phonic Analysis-Silent Letters	04 Structural Analysis	05 Vocabulary Meaning	06 Map Skills	07 Graph and Table Skills	08 Reference Skills	09 Word Meaning Skills	10 Sentence Meaning Skills	11 Passage Meaning Skills	12 General Reading	Total Allocated Time (Hours)
Period A													
IGE WDRSD													
466	-	-	-	-	-	-	-	-	-	-	-	-	-
491								1.55,16	7.19,75				8.74
476						10.56,94							10.56
537						6.17,41		7.42,50					13.59
Mean						5.58,45		2.99,22	2.40,25				10.96
IGE/Non-WDRSD													
372	1.26, 5	1.86, 8	0.38, 2	2.74,12	1.22, 5	0.05, 0+		0.72, 3	1.30, 6	0.53, 2	3.79,16	6.16,27	20.01
410						0.73,7		2.36,22	1.88,18	2.13,20		3.39,32	10.49
493				0.56, 6				4.02,44				2.95,32	7.53
Mean	0.42, 2	0.62, 3	0.13, 1	1.10, 6	0.41, 2	0.26, 2		2.37,23	1.06, 8	0.89, 8	1.26, 5	4.17,30	12.68
Non-IGE/ WDRSD													
900							3.37,40	3.97,47					7.34
902						3.33,70		0.15, 3					3.48
931								9.34,70				2.52,19	11.86
413											4.94,99		4.94
Mean						0.83,18	0.84,10	3.36,30			1.24,25	0.63, 5	6.90

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Table 14 (continued)

Content Code and Description (Hours,)

Code No. Type and Number	02 Phonic Analysis--Consonants	03 Phonic Analysis--Vowels	04 Phonic Analysis--Silent Letters	05 Structural Analysis	06 Vocabulary Meaning	07 Map Skills	08 Graph and Table Skills	09 Reference Skills	10 Word Meaning Skills	11 Sentence Meaning Skills	12 Passage Meaning Skills	13 General Reading	Total Allocated Time (Hours.)
Period B													
IGE WDRSD				1.90,36		1.57,30	0.42, 8		0.28, 5				4.17
466								5.72,51			3.88,35		9.60
481													
476						2.46,25	2.67,27					0.56, 6	5.69
507						2.12,33	0.83,13				1.39,21		4.34
Mean				0.48, 9		1.54,22	0.98,12	1.43,13	0.07, 1		1.32,14	0.14, 2	5.95
IGE/Non-WDRSD													
372	0.86, 4	0.53, 2		0.88, 4	0.26, 1			1.72, 8	3.95,18	0.64, 3	2.98,14	5.88,28	17.70
418		0.05, 0+						0.57, 5	1.39,12	0.50, 4		8.85,77	11.36
493									2.72,16		1.05, 6	5.96,36	9.73
Mean	0.29, 1	0.19, 1		0.29, 1	0.09, 0+			0.76,14	2.69,16	0.38, 2	1.34, 7	6.90,47	12.93
Non-IGE/WDRSD													
900							0.85, 8	6.09,62					6.94
902							0.07, 2		3.27,84				3.34
901							3.10,30		2.40,23		0.29, 3	2.31,22	8.10
903											7.05,99		7.05
Mean							1.00,10	1.52,16	1.42,26		1.84,26	0.58, 6	6.36

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Table 14 (continued)

Content Cluster and Description (Hours, [illegible])

School Type and Number	(1) Phonic Analysis--Consonants	(2) Phonic Analysis--Vowels	(3) Phonic Analysis--Silent Letters	(4) Structural Analysis	(5) Vocabulary Meaning	(6) Map Skills	(7) Graph and Table Skills	(8) Reference Skills	(9) Work Study Skills	(10) Sentence Meaning Skills	(11) Phrase Meaning Skills	(12) General Reading	Total Allocated Time (Hours)
Period C													
IGE WDRSD													
466				5.64,59									5.64
481	-	-	-	-	-	-	-	-	-	-	-	-	-
476							1.84,15					2.80,23	4.64
437									2.96,20	0.50, 3	9.64,65		13.10
Mean				1.88,20			0.61, 5		0.99, 7	0.17, 1	3.21,22	0.93, 8	7.79
IGE Non-WDRSD													
372	3.05, 9	1.19, 4		1.79, 5	0.59, 2			2.92, 9	2.87, 8	1.11, 3	1.49, 4	13.30,40	28.31
413				2.52,19	0.50, 4	0.67, 5		0.07, 0*	2.82,21		3.16,24	3.12,23	12.86
493								1.06, 8			1.99,15	6.38,49	9.43
Mean	1.02, 3	0.40, 1		1.44, 8	0.36, 2	0.22, 2		1.35, 6	1.90,10	0.37, 1	2.21,14	7.60,37	16.87
Non-IGE WDRSD													
900	-	-	-	-	-	-	-	-	-	-	-	-	-
902						3.12,36		1.80,21					4.92
961		0.22, 1		4.00,20				5.09,25	1.67, 8		2.39,12	3.04,15	16.41
921											6.50,91		6.50
Mean		0.07, 0*		1.33, 7		1.04,12		2.30,15	0.56, 3		2.96,34	1.01, 5	9.28

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Table 14 (continued)

School Type and Number	Content Code and Description (Hours. [1]) 04 Phonic Analysis--Consonants	05 Phonic Analysis--Vowels	06 Phonic Analysis--Sight Letters	07 Structural Analysis	08 Vocabulary Meaning	09 Map Skills	10 Graph and Table Skills	11 Reference Skills	12 Word Meaning Skills	13 Sentence Meaning Skills	14 Passage Meaning Skills	15 General Reading	Total Allocated Time (Hours)
Period D													
IGE WDRSD													
466		0.94,16		1.81,30							0.90,15		3.65
451				0.70, 7				2.30,72					2.30
476									1.40,14		5.44,56	1.47,15	9.01
507							4.50,42	3.18,30					7.68
Mean		0.24, 4		0.63, 9			1.12,10	1.37,26	0.35, 4		1.58,18	0.37, 4	5.66
IGE/Non-WDRSD													
372	0.28, 1	0.50, 2		2.37,10	0.65, 3		0.06, 0+	1.20, 5	4.59,18	0.16, 1	1.56, 6	9.64,39	21.01
410								2.33,26	1.39,15		0.72, 8	4.05,45	8.49
493									1.58,19			5.30,64	6.88
Mean	0.09, 0+	0.17, 1		0.79, 3	0.22, 1		.02, 0+	1.18,10	2.52,18	0.05, 0+	0.76, 5	6.33,49	12.13
Non-IGE/WDRSD													
900						5.04,56	2.90,32						7.94
902											3.56,61		3.56
901						0.75, 8		6.00,65					6.75
903	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean						1.93,21	0.97,11	2.00,22			1.19,20		6.08

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Table 14 (continued)

Content Code and Description (Hours, *)

Test No. Item Type and Number	1 Phonic Analysis-Consonants	2 Phonic Analysis-Vowels	3 Phonic Analysis-Blend Letters	4 Structural Analysis	5 Vocabulary Meaning	6a Sig. Detail	6b Graph and Table Skills	7 Reference Skills	8 Word Study Skills	9 Sentence Meaning Skills	10 Passage Meaning Skills	11 General Reading	12 Total Allocated Time (Hours)
Period E													
IGE WORSD													
486	-	-	-	-	-	-	-	-	-	-	-	-	-
451								7.11,65				3.35,30	10.46
476									2.27,27			5.58,67	7.85
537							6.61,94						6.61
Mean							2.20,31	2.37,22	0.76, 9			2.98.33	8.31
IGE/Non-WORSD													
372	0.47, 2	0.53, 2		2.83,12	0.53, 2			1.32, 6	4.19,18	0.10, 0+	2.72,12	8.04,35	20.73
410								1.70,23	4.45,61		0.28, 4	0.72,10	7.15
433									1.00, 7	1.11, 8	3.52,24	7.50,52	13.13
Mean	0.16, 1	0.18, 1		0.94, 4	0.18, 1			1.01,10	3.21,29	0.40, 3	2.17,13	5.42,32	13.67
Non-IGE/ WORSD													
900				4.33,38					3.00,26				7.33
902						3.06,55							3.06
421								3.56,18	7.05,37		0.42, 2	6.80,35	17.93
903										0.48, 5	7.11,74		7.59
Mean				1.08,10		0.76,14		0.89, 4	2.51,16	0.12, 1	1.88,19	1.70, 9	8.95

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Table 14 (continued)

Content Code and Description (Hours,)

Student Type and Number	Phonic Analysis-- Consonants	Phonic Analysis-- Vowels	Phonic Analysis-- Silent Letters	Structural Analysis	Vocabulary Meaning	Map Skills	Graph and Table Skills	Reference Skills	Word Meaning Skills	Sentence Meaning Skills	Passage Meaning Skills	General Reading	Total Allocated Time (Hours)
Period F													
IGE, WDRSD													
466	0.84, 7								0.44, 4		6.74,56		8.02
451								3.33,30			7.09,64		10.42
476											6.53,99	0.07, 1	6.60
507									5.36,78				5.36
Mean	0.21, 2							0.83, 8	1.45,20		5.09,55	0.02,0+	7.60
IGE/Non-WDRSD													
372	0.75, 4			1.98,12				1.04, 6	3.21,20	0.23, 1	1.70,10	5.12,31	14 .03
410				0.65, 6					4.53,38	0.12, 1	1.62,14	4.07,34	10.99
493				0.60, 6	0.07, 1	2.10,13			1.79,16		0.67, 6	4.97,46	10.20
Mean	0.25, 1			1.08, 8	0.02,0+	0.70, 6		0.35, 2	3.18,25	0.12, 1	1.33,10	4.72,37	11.74
Non-IGE, WDRSD													
900								4.97,92					4.97
902	0.07, 1						2.34,27		5.30,62				7.71
921							2.92,36		0.39, 5	0.19, 2	2.04,26	0.10, 1	5.64
803										1.20,16	4.95,65		6.15
Mean	0.02, 0+						1.32,16	1.24,23	1.42,16	0.35, 4	1.75,23	0.02, 0+	6.12

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Table 14 (continued)

Content Code and Description (Hours,)

Group, Type and Number	4 Phonic Analysis--Consonants	5 Phonic Analysis--Vowels	6 Phonic Analysis--Silent Letters	7 Structural Analysis	8 Vocabulary Training	9 Map Skills	10 Graph and Table Skills	11 Reference Skills	12 Word Meaning Skills	13 Sentence Meaning Skills	14 Passage Meaning Skills	15 General Reading	16 Total Allocated (Hours)
Period G													
IGE WDRSD													
466				1.40,13					6.09,55				7.49
451								3.25,30			4.57,42		7.82
476								1.11, 9				9.46,81	10.57
507									3.73,96				3.73
Mean				0.35, 3				1.09,10	2.46,38		1.14,10	2.36,20	7.40
IGE/Non-WDRSD													
372	0.12, 0+				0.29, 1	0.70, 3		0.23, 1	7.28,30		1.27, 5	6.03,25	15.92
413								0.75, 2	4.75,16	0.23, 1	6.65,22	16.19,54	28.57
491												5.92,59	5.92
Mean	0.04, 0+				0.10, 0+	0.23, 1		0.33, 1	4.01,15	0.08, 0+	2.64, 9	9.38,46	16.80
Non-IGE/WDRSD													
900							2.86,32	4.39,49					7.52
902							2.00,22		4.61,52		0.06, 1		6.67
922				0.10, 1			2.05,18		3.90,35	0.99, 9	0.12, 1	1.50,14	8.66
903									2.08,21		6.79,69		8.87
Mean				0.02, 0+			1.73,18	1.10,12	2.65,27	0.25, 2	1.74,18	0.38, 4	7.86

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Table 15

Total Number of Hours and Percentage of Allocated Time by Period for Mathematics General Objectives Grade 2

Content Code and Description (Hours, %)

School Type and Number	01 Writing Numbers	02 Inequalities	03 Other Place Value or Numeration	04 Addition Subtraction	05 Multi-plication	06 Fractions	07 Measure-ment	08 Word Problems	09 Applications	10 Geometry	11 Miscel-laneous	Total
Period A												
IGE/DMP												
440	3.30,30		0.93, 8					3.11,29		1.92,18		9.26
593	3.91,23			7.63,45		0.70,0+		4.97,29				16.58
Mean	3.60,26		0.46, 4	3.82,22		0.35, 0+		4.04,29		0.96, 9		12.92
IGE/Non-DMP												
428			2.50,50	2.50,50								5.00
421											10.24,90	10.24
333				9.28,99								9.28
Mean			0.83,17	3.93,50							3.41,30	8.17
Non-IGE/DMP												
904								5.29,43	2.83,23	3.99,32		12.11
906								10.78,74	2.41,17	0.44, 3		13.63
762	0.23, 1			6.55,25				4.26,16		2.95,11		13.99
Mean	0.08, 0+			2.18, 8				6.78,45	1.75,13	2.46,16		13.24

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Table 15 (continued)

Content Area and Description (Hours, %)

School Type and Number	01 Written Numerals	02 Notation	03 Other Place Value or Numeration	04 Addition Subtraction	05 Multi-plication	06 Fractions	07 Measure-ment	08 Word Problems	09 Applications	10 Geometry	11 Miscel-laneous	Total
					Period B							
IGE/DMP												
440	1.58,15			2.14,20				2.95,27		3.04,28		9.71
593	6.41,36	1.08, 6		4.13,23		5.12,29						16.74
Mean	4.00,25	0.54,3		3.14,22		2.56,14		1.48,14		1.52,14		13.22
IGE/Non-												
428		2.37,47		2.63,53								5.00
421				8.79,75							1.11, 9	9.90
333				7.98,69						2.66,23		10.64
Mean		0.79,16		6.47,66						0.89, 8	0.37, 3	8.51
Non-IGE/ DMP												
904	3.93,31			3.31,26				4.10,32				11.34
406	4.99,38							2.83,22				7.82
762				10.24,34				1.21, 4		o.71, 2		12.16
Mean	2.97,23			4.52,20				2.71,19		0.24, 1		10.44

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Table 15 (continued)

Content Code and Description (Hours, %)

School Type and Number	01 Writing Numbers	02 Inequalities	03 Other Place Value or Numeration	04 Addition Subtraction	05 Multiplication	06 Fractions	07 Measurement	08 Word Problems	09 Applications	10 Geometry	11 Miscellaneous	Total
					Period C							
IGE/DMP												
440	3.33,43			2.80,36				0.53, 7				6.66
593				4.81,89				0.28, 5				5.09
Mean	1.66,22			3.80,63				0.40, 6				5.88
IGE/Non-												
428				0.86,34							1.58,63	2.44
421	-	-	-	-	-	-	-	-	-	-	-	-
333				10.41,95								10.41
Mean				5.64,64							0.79,32	6.42
Non-IGE/ DMP												
904	2.93,26	0.70, 6		6.13,54								9.76
906								14.81,93				14.81
762	3.50,11		1.94, 6	7.65,24				4.17,13				17.26
Mean	2.14,12	0.23, 2	0.65, 2	4.59,26				6.33,35				13.94

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Table 15 (continued)

Mean Gain Scores and Standard Deviations (Hours, %)

School Type And Number	01 Writing Numbers	02 Inequalities	03 Other Place Value or Numeration	04 Addition Subtraction	05 Multiplication	06 Fractions	07 Measurement	08 Word Problems	09 Applications	10 Geometry	11 Miscellaneous	Total
					Period D							
IGE/DMP												
440	1.84,20			2.12,23			1.42,16	1.10,12		1.28,14		7.76
593				20.13,95				0.06,0+				20.19
Mean	0.92,10			11.12,60			0.71, 8	0.58, 6		0.64, 7		13.98
IGE Non-DMP												
429				3.16,26						2.06,17	4.35,36	9.57
421	0.27, 2		1.34,13	3.49,33		2.14,20						7.24
333				2.57,43		2.93,49						5.50
Mean	0.09, 1		0.45, 4	3.07,34		1.69,23				0.69, 6	1.45,12	7.44
Non-IGE/DMP												
904				5.10,50		3.33,33						8.43
906	9.72,68			3.50,25								13.22
762			1.04, 9	4.37,38	0.53, 5			2.52,22				8.46
Mean	3.24,23		0.35, 3	4.32,38	0.18, 2	1.11,11		0.84, 7				10.04

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Table 15 (continued)

Content Code and Description (Hours, %)

School Type And Number	01 Writing Numbers	02 Interpolation	03 Other Place Value or Numeration	04 Addition, Subtraction	05 Multiplication	06 Fractions	07 Measurement	08 Word Problems	09 Applications	10 Geometry	11 Miscellaneous	Total
Period E												
IGE/DMP												
440	2.98,31			1.85,19			1.33,14	1.25,13	0.70, 7			8.11
583				12.25,74				2.56,16				14.81
Mean	1.49,16			7.05,46			0.66, 7	1.90,14	0.35, 4			11.46
IGE/Non-												
428		1.89,24		4.60,58								6.49
421			2.10,22	3.00,31		0.74, 8				1.25,13		7.09
333			2.80,41								3.66,53	6.46
Mean		0.63, 8	1.63,21	2.53,30		0.25, 3				0.42, 4	1.22,18	6.68
Non-IGE/ DMP												
904		1.67,13		3.16,25		4.71,37						9.54
906				12.30,92								12.30
762			3.35,11	7.81,25	o.41, 1					1.95, 6	6.73,21	20.25
Mean		0.57, 4	1.12, 4	7.76,47	o.14,0+	1.57,12				0.65, 2	2.24, 7	14.03

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Table 15 (continued)

(Hours, 1)

School Type and Number	01 Writing Numbers	02 Notation	03 Place Value or Numeration	04 Addition Subtraction	05 Multiplication	06 Fractions	07 Measurement	08 Word Problems	09 Applications	10 Geometry	11 Miscellaneous	Total
					Period F							
IGE/DMP												
440	1.52,43	0.33, 9	0.33, 9	1.06,30								3.24
593				7.13,63				2.70,24				9.83
Mean	0.76,22	0.16, 4	0.16, 4	4.10,46				1.35,12				6.54
IGE/Non-DMP												
429		0.39, 6		0.07, 1							3.32,52	3.78
421			0.84, 8	2.99,29							2.92,29	6.75
333				2.69,26							6.73,65	9.42
Mean		0.13, 2	0.28, 3	1.92,19							4.32,49	6.65
Non-IGE/DMP												
904				5.42,83								5.42
906	4.95,99											4.95
762				4.69,25	0.47, 2	0.74, 4	3.03,16				4.60,24	13.53
Mean	1.65,33			3.37,36	0.16, 1	0.25, 1	1.01,5				1.53, 8	7.97

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Table 15 (continued)

Network Type and Number	Content Code and Description (Hours, \ 01 Writing Numbers	02 Inequalities	03 Other Place Value or Numeration	04 Addition Subtraction	05 Multiplication	06 Fractions	07 Measurement	08 Word Problems	09 Applications	10 Geometry	11 Miscellaneous	Total
Period G												
IGE/DMP												
440	2.63,17			7.46,49		1.10, 7	1.84,12					13.03
593	2.29,20			9.06,78							0.07, 1	11.42
Mean	2.46,18			8.26,64		0.55, 4	0.92, 6				0.04,0+	12.22
IGE/Non-												
428				3.17,43						1.93,26	0.56, 8	5.66
421				3.84,54		0.38, 5					2.04,29	6.26
333				4.80,52	2.99,32							7.79
Mean				3.94,50	1.00,11	0.13, 2				0.64, 9	0.87,12	6.57
Non-IGE/ DMP												
904		1.67,17						4.00,40			4.00,40	9.67
906	5.08,36			4.77,34				3.16,22				13.01
762			0.72, 3	5.69,23		2.85,11					1.27, 5	10.53
Mean	1.69,12	0.56, 6	0.24, 1	3.49,19		0.95, 4		2.39,21			1.76,15	11.07

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Table 16

Average Number of Hours and Percentage of Available Time by Period for Mathematics General Objectives
Grade 5

School Type and Number	01 Addition Subtraction	02 Multiplication	03 Division	04 Fractions--Concepts	05 Fractions--Computation	06 Decimal Fractions--Concept	07 Decimal Fractions--Computation	08 Measurement	09 Word Problems	10 Applications	11 Geometry	12 Miscellaneous	Tota.
	Content Code and Description (Hours, %)												
	Period A												
IGE/DMP													
440	2.87,16	4.55,26	6.08,35									1.02, 6	14.52
593			10.37,86										10.37
Mean	1.44, 8	2.28,13	8.22,60									0.51, 3	12.44
IGE/Non-IGE													
426			13.89,96		0.42, 3							0.06,0+	14.37
333		2.00,44					0.25, 6				2.25,50		4.50
Mean		1.00,22	6.94,48		0.21, 2		0.12, 3				1.12,25	0.03,0+	9.44
Non-IGE/DIF													
905		10.74,87											10.74
906		14.58, 97											14.58
Mean		12.66,92											12.66

Table 16 (continued)

Content Code and Description

(Hours, %)

School Type and Number	01 Addition Subtraction	02 Multiplication	03 Division	04 Fractions--Concepts	05 Fractions--Computation	06 Decimal Fractions--Concept	07 Decimal Fractions--Computation	08 Measurement	09 Word Problems	10 Applications	11 Geometry	12 Miscellaneous	Total
Period B													
IGE/DMP													
440		1.96,12	9.04,53						3.87,23			0.94, 6	15.81
593			7.00,56				3.00,24						10.00
Mean		0.98, 6	8.02,55				1.50,12		1.94,12			0.47, 3	12.90
IGE/Non-IGE													
428		0.38, 4	2.45,25									7.01,71	9.84
333		5.53,32	2.73,16								5.13,30	2.17,13	15.56
Mean		2.96,18	2.59,20								2.56,15	4.59,42	12.70
Non-IGE/DMP													
905		8.52,68											8.52
906		7.32,47	6.25,40	0.17, 1						0.39, 2		0.17, 1	14.30
Mean		7.92,58	3.12,20	0.08,0+						0.20, 1		0.08,0+	11.41

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Table 16 (continued)

School Type and Number	01 Addition/ Subtraction	02 Multi-plication	03 Division	04 Fractions--Concepts	05 Fractions--Computation	06 Decimal Fractions--Concept	07 Decimal Fractions--Computation	08 Measure-ment	09 Word Problems	10 Applications	11 Geometry	12 Miscel-laneous	Total
Content Code and Description (Hours, %)													
Period C													
IGE/DMP													
440				2.20,28	1.56,20				0.67, 8	1.71,21			6.14
593												3.63,96	3.63
Mean				1.10,14	0.78,10				0.34, 4	0.86,10		1.82,48	4.88
IGE/Non-DMP													
426		1.40,28										2.33,48	3.73
333			5.86,49	1.17,10	1.33,11	1.24,10						0.57, 5	10.17
Mean		0.70,14	2.93,24	0.58, 5	0.66, 6	0.62, 5						1.45,26	6.95
Non-IGE/DMP													
905		0.44, 4	9.41,83										9.85
906		0.33, 4	4.34,52		0.14, 2		0.28, 3	2.34,28					7.43
Mean		0.38, 4	6.88,67		0.07, 1		0.14, 2	1.17,14					8.64

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Table 16 (continued)

Content Code and Description (Hours, %)

School Type and Number	01 Addition Subtraction	02 Multi-plication	03 Division	04 Fractions--Concepts	05 Fractions--Computation	06 Decimal Fractions--Concept	07 Decimal Fractions--Computation	08 Measure-ment	09 Word Problems	10 Applications	11 Geometry	12 Miscel-laneous	Total
Period D													
IGE/DMP													
440	0.65, 4	1.34, 8	1.21, 7	9.05,52	4.36,25								16.61
593							14.05,86					0.22, 1	14.27
Mean	0.32, 2	0.67, 4	0.60, 4	4.52,26	2.18,12		7.02,43					0.11,0+	15.44
IGE/Non-DMP													
428			1.11, 8			3.59,25	7.13,49						11.83
333			1.32,17	0.33, 4	3.62,46				2.53,32				7.80
Mean			1.22,12	0.16, 2	1.81,23	1.80,12	3.56,24		1.26,16				9.82
Non-IGE/DMP													
905		1.16,10	8.96,79										10.12
906		1.42, 8	3.52,20					7.06,40	2.42,14	1.96,11	0.11, 1		16.49
Mean		1.29, 9	6.24,49					3.53,20	1.21, 7	0.98, 6	0.06,0+		13.30

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Table 16 (continued)

Content Code and Description (Hours, %)

School Type and Number	01 Addition/ Subtraction	02 Multi-plication	03 Division	04 Fractions--Concepts	05 Fractions--Computation	06 Decimal Fractions--Concept	07 Decimal Fractions--Computation	08 Measure-ment	09 Word Problems	10 Applications	11 Geometry	12 Miscel-laneous	Total
Period E													
IGE/DMP													
440			3.92,22	8.23,46	3.93,22								16.08
593				10.40,65			2.39,15						12.79
Mean			1.96,11	9.32,56	1.96,11		1.20, 8						14.44
IGE/Non-DMP													
428			5.54,40	7.72,56									13.26
333					3.47,37				0.77, 8		3.88,42		8.12
Mean			2.77,20	3.86,28	1.74,18				0.38, 4		1.94,21		10.69
Non-IGE/DMP													
905				5.34,48	5.39,49								10.73
906		0.49, 3	1.35, 8	10.96,64	2.44,14						0.06,0+	0.11, 1	15.41
Mean		0.24, 2	0.68, 4	8.15,56	3.92,32						0.03,0+	0.06,0+	13.07

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Table 16 (continued)

School Type and Number	01 Addition/ Subtraction	02 Multiplication	03 Division	04 Fractions--Concepts	05 Fractions--Computation	06 Decimal Fractions--Concept	07 Decimal Fractions--Computation	08 Measurement	09 Word Problems	10 Applications	11 Geometry	12 Miscellaneous	Total
	Content Code and Description (Hours, %)												
	Period F												
IGE/DMP													
440		0.32, 6		0.72,13	2.11,38							2.30,42	5.45
593				9.37,78									9.37
Mean		0.16, 3		5.04,45	1.06,19							1.15,21	7.41
IGE/Non-DMP													
428		1.25,14	1.63,17	3.40,35	0.99,10		2.17,22						9.44
333					0.78,16						1.57,33	1.45,30	3.80
Mean		0.62, 6	0.82, 8	1.70,18	0.88,13		1.08,11				0.78,16	0.72,15	6.62
Non-IGE/DMP													
904					8.11,90								8.11
906	0.28, 2			3.61,33	4.20,38			0.92, 8					9.01
Mean	0.14, 1			1.80,16	6.16,64			0.46, 4					8.56

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Table 16 (continued)

Content Code and Description (Hours, %)

School Type and Number	01 Addition/ Subtraction	02 Multi-plication	03 Division	04 Fractions-- Concepts	05 Fractions-- Computation	06 Decimal Fractions-- Concept	07 Decimal Fractions-- Computation	08 Measure-ment	09 Word Problems	10 Applications	11 Geometry	12 Miscel-laneous	Total
Period G													
IGE/DMP													
440	0.35, 1	1.41, 5	3.14,12	8.18,30	2.45, 9			2.81,10			6.88,25		25.22
591				3.04,40	2.98,39								6.02
Mean	0.18,0+	0.70, 2	1.57, 6	5.61,35	2.72,24			1.40, 5			3.44,12		15.62
IGE/Non-DMP													
426	1.04, 7	1.12, 8	1.34, 9	7.25,49	1.92,13		0.12, 1						12.79
333					2.27,17		2.60,19				3.03,22	5.70,42	13.60
Mean	0.52, 4	0.56, 4	0.67, 4	3.62,24	2.10,15		1.36,10				1.52,11	2.85,21	13.20
Non-IGE/DMP													
904		1.09, 9		3.45,30			2.55,22				2.33,20		9.42
906		0.96, 5	0.17, 1	5.33,30	2.94,16	2.53,14	3.94,22				0.33, 2		16.20
Mean		1.02, 8	0.08,0+	4.39,30	1.47, 8	1.26, 7	3.24,22				1.33,11		12.81

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